CORRECTED VERSION

(19) World Intellectual Property
Organization
International Bureau



- 1 (601) B BISTON IN 1911 IN 1911 BEING BEING HIN I IN 101 INSIN BEING BEING BEING HEIN BEING BEINGE BEING BE

(43) International Publication Date 24 December 2003 (24.12.2003)

PCT

(10) International Publication Number WO 2003/106010 A1

(51) International Patent Classification⁷: A61K 47/34, A01N 25/08

B01F 17/00,

(21) International Application Number:

PCT/GB2003/002549

(22) International Filing Date: 13 June 2003 (13.06.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

0213818.8

17 June 2002 (17.06.2002) GI

- (71) Applicant (for all designated States except US): IMPE-RIAL CHEMICAL INDUSTRIES PLC [GB/GB]; 20 Manchester Square, London W1U 3AN (GB).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): BLEASE, Trevor, Graham [GB/GB]; 5 Abbey Close, Stockton-on-Tees, Cleveland TS19 7SP (GB).

(74) Agents: ROBERTS, Jonathan, Winstanley Uniqema Intellectual Property Dept. et al.; Uniqema Intellectual Property Department, Wilton Centre, Wilton, Redcar TS10 4RF (GB).

- (81) Designated States (national): AU, BR, CA, CN, CO, ID, IN, JP, KR, MX, NZ, PH, SG, TR, US, ZA.
- (84) Designated States (regional): European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR).

Published:

with international search report

(48) Date of publication of this corrected version:

4 March 2004

(15) Information about Correction: see PCT Gazette No. 10/2004 of 4 March 2004, Section II

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: DISPERSIONS OF A SOLID IN AN AQUEOUS LIQUID INCLUDING A POLYALKYLENEGLYCOL ESTER OR AMIDE OF A FATTY ACID DIMER AND/OR TRIMER

(57) Abstract: Polyethylene glycol esters and amides of polymerised fatty acids are useful dispersing agents for solids, particularly particulate solids e.g. agrochemicals, oil drilling mud components, pigments, personal care formulants, ceramics, magnetic materials, extenders, fillers, optical brighteners, textile auxiliaries, or soil removed from clothes during cleaning, in aqueous media. Particular such agents are of the formula (I): $[Pol]-(COX)_m$ (I), where: Pol is the core residue of a polymerised fatty acid; m is 2 or 3; and each X is: OM; where M is H, a cationic salt forming species or a group $-(AO)_nR^7$; or a group $-NR^8-(AO)_nR^9$; where AO is an alkylene oxide residue; n is from 1 to 100; and R^7 , R^8 and R^9 are as defined, from H, an anionic group, alkyl or alkenyl; provided that at least one X is a group of the formula $-(AO)_nR^7$ or $-NR^8-(AO)_nR^9$.

